

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



270224  
N345  
cop. 2

# **FALL WATER SUPPLY SUMMARY FOR NEVADA**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with  
**NEVADA DEPARTMENT of CONSERVATION  
and NATURAL RESOURCES  
DIVISION of WATER RESOURCES**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**OCT. 1, 1980**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.*

### PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.





# **WATER SUPPLY OUTLOOK FOR NEVADA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**NORMAN A. BERG**

ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D. C.

|||||  
*Released by*

**GERALD THOLA**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
RENO, NEVADA

*In Cooperation with*

**ROLAND D. WESTERGARD**

DIRECTOR  
DEPARTMENT OF CONSERVATION AND  
NATURAL RESOURCES  
CARSON CITY, NEVADA  
|||||

*Report prepared by*

**RONALD E. MORELAND, Snow Survey Supervisor**

and

**GARRY L. SCHAEFER, Assistant Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
P. O. BOX 4850  
RENO, NEVADA

## TABLE OF CONTENTS

WATER SUPPLY OUTLOOK FOR NEVADA .....	1-2
NEVADA STREAMFLOW FORECASTS AND OBSERVED STREAMFLOW .....	3
RESERVOIR STORAGE STATUS .....	3
PRECIPITATION.....	4-7
SNOTEL .....	8
SNOTEL CHARTS (Snow Pillow Gage and Precipitation Gage)	
Heavenly Valley .....	9
Ebbetts Pass .....	10
Sonora Pass .....	11
Virginia Lakes Ridge .....	12
Bear Creek .....	13
Corral Canyon .....	14
LIST OF COOPERATORS .....	Inside Back Cover

*ALL AVERAGES ARE FOR 1963-77.*

# WATER SUPPLY OUTLOOK FOR NEVADA

STREAMFLOWS FOR THE PERIOD APRIL 1 THROUGH JULY 31, 1980, WERE NEAR THE APRIL 1, 1979 PREDICTIONS. THEY WERE ABOVE AVERAGE TO MUCH ABOVE AVERAGE FOR MOST STREAMS AFFECTING NEVADA'S IRRIGATED AREAS. THE CARSON, WALKER, AND HUMBOLDT RIVERS HAD MUCH ABOVE AVERAGE FLOWS, WHILE THE TRUCKEE RIVER HAD ABOVE AVERAGE. LAKE TAHOE RISE WAS ABOVE AVERAGE FOR THE FIRST TIME SINCE 1975.

RESERVOIR STORAGE IN SEVEN MAJOR RESERVOIRS AFFECTING THE IRRIGATED AREAS IS 112 PERCENT OF AVERAGE, COMPARED TO LAST YEAR'S 55 PERCENT. LAKE TAHOE CONTAINS 412,000 ACRE-FEET AS OF OCTOBER 1, 1980, WHILE LAST YEAR IT CONTAINED 101,000 ACRE-FEET. THE 15-YEAR AVERAGE FOR LAKE TAHOE IS 456,000 ACRE-FEET.

Streamflows on the Sierra eastern slopes ranged from 130 percent on the Truckee River at Farad to 191 percent on the East Walker River near Bridgeport. Lake Tahoe rise was 131 percent of average. The Carson River and tributaries ranged from 144 percent on the East Carson River near Gardnerville to 163 percent on the Carson River near Ft. Churchill.

The West Walker River near Coleville was 149 percent of average while the East Walker River near Brigeport was 191 percent of average.

The Humboldt River at Palisade was 173 percent of average. No other stream-flow data is available at this time for the Humboldt River.

Storage in the reservoirs since October 1, 1979, has increased significantly with Wild Horse Reservoir at 153 percent and Rye Patch Reservoir 166 percent of last year. Storage for the reservoirs receiving water from the Sierra mostly increased, Lake Tahoe being the most significant.

A comparison is shown for the Truckee-Tahoe Basins for the past six years.

# TAHOE-TRUCKEE BASINS

Year	Percent Snow Water as of April 1	Truckee River at Farad April 1-July 31 (1,000 acre-feet)	Lake Tahoe Stage Rise in feet* April 1 to High Elev.	Reservoir Storage** (1,000 acre-feet) April 1    October 1	
1980	134	355	1.86	458	604
1979	87	187	1.13	237	215
1978	128	318	1.37	188	253
1977	33	51	.31	208	42
1976	47	59	.21	668	398
1975	158	367	1.92	756	785
1963-77 Average	100	273	1.42	653***	626***

\* One foot of rise equals approximately 122,000 acre-feet.

\*\* Total of useable storage in Lake Tahoe, Boca, Stampede and Prosser Reservoirs.

\*\*\* Stampede and Prosser Reservoirs have 7 and 14-year averages, respectively, included in this total.

The Lake Tahoe Rise is above average—the first time in five years. The snow pack was much above average, which resulted in above average streamflow for the Truckee River. The present October 1 storage for Lake Tahoe is 412,000 acre-feet. This is 311,000 acre-feet more than last year. The storage for this year is 90 percent of average.

Lake Tahoe usable storage is limited to 6.1 feet between 6,223.0 and 6,229.1 feet elevations. The October 1 level was 6,226.39 feet. The high elevations attained each year since 1975 are:

July 20, 1980 - 6,227.32 feet  
 June 11, 1979 - 6,225.15 feet  
 June 11, 1978 - 6,225.20 feet  
 June 11, 1977 - 6,224.22 feet  
 May 23, 1976 - 6,227.04 feet  
 July 16, 1975 - 6,228.60 feet

In the southern part of the state, Lake Mead is 137 percent of average and contains 23,637,000 acre-feet, some 1,395,000 acre-feet above last year.

Average precipitation and snowpack this winter is again needed to assure average water supplies for next season.



APRIL - JULY 1980  
NEVADA STREAMFLOW FORECASTS  
AND  
OBSERVED STREAMFLOW

The following table contains April-July forecasts made during the past winter. Observed streamflow quantities are provisional as furnished by the U. S. Geological Survey.

FORECAST STREAMS	APRIL-JULY STREAMFLOW (1,000 acre-feet)						
	FORECAST				OBSERVED	AVERAGE	OBSERVED
	Feb. 1 1980	Mar. 1 1980	Apr. 1 1980	May 1 1980	1980	1963-77	1980 as % of 15-year average
<u>TRUCKEE RIVER</u>							
Little Truckee above Boca, CA <sup>1/</sup>	82	110	115	115	120	87	138
Truckee River at Farad, CA <sup>1/</sup>	265	355	360	360	355	273	130
Lake Tahoe Rise, CA <sup>3/</sup>	1.50	1.95	2.0	2.0	1.86	1.42	131
<u>CARSON RIVER</u>							
E. Carson nr Gardnerville, NV	205	255	265	265	270	187	144
E. Carson nr Gardnerville, NV (Date of 200 c.f.s. flow)	-	8/3	8/8	8/8	8/12	7/24	-
W. Carson at Woodfords, CA	57	72	80	80	77	53	145
Carson nr Carson City, NV	192	250	270	270	294	183	161
Carson nr Ft. Churchill, NV	170	230	250	250	273	167	163
<u>WALKER RIVER</u>							
E. Walker nr Bridgeport, CA <sup>2/</sup>	80	100	105	105	132	69	191
W. Walker below Little Walker nr Coleville, CA	170	210	225	225	217	146	149
<u>HUMBOLDT RIVER</u>							
Humboldt R. at Palisade, NV	190	195	225	215	383	221	173

<sup>1/</sup> Corrected for storage above station.

<sup>2/</sup> April-August flow, corrected for storage.

<sup>3/</sup> Maximum rise in feet from April 1, assuming gates closed.

RESERVOIR STORAGE STATUS  
October 1, 1980

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (1,000 acre-feet)	USABLE STORAGE (1,000 acre-feet)			
			1980	1979	1978	15-year Average 1963-77
Owyhee	Wild Horse	72	49	32	27	28
Lower Humboldt	Rye Patch	172	173	104	54	109
Colorado	Mohave	1,810	1,445	1,428	1,484	1,413
Colorado	Mead	26,159	23,637	22,242	20,864	17,248
Tahoe	Tahoe	732	412	101	131	456
Truckee	Boca	41	30	31	36	20
Truckee	Prosser	30*	14	26	25	14**
Truckee	Stampede	220	145	57	61	136**
Carson	Lahontan	291	168	140	163	138
West Walker	Topaz	59	28***	111	31	19
East Walker	Bridgeport	42	23	11	30	16

\* Flood control use allocation of 20,000 acre-feet between November 1 and April 10.

\*\* Prosser storage began 1/30/63; Stampede storage began 8/1/69.

\*\*\* Reservoir storage as of 9/22/80.

# PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT RECORD			PAST RECORD
		PERIOD OF MEASUREMENT	ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/79	ACCUM. PRECIP. PREVIOUS YEAR
TAHOE-TRUCKEE					
Echo Peak (CA)	7,800	4/25/80 - 6/24/80	1.0	65.0	--
		6/25/80 - 6/30/80*	0.4	65.4	--
		7/01/80 - 7/31/80*	1.9	67.3	--
		8/01/80 - 8/31/80*	0.0	67.3	--
		9/01/80 - 9/30/80*	0.0	67.3	--
Fallen Leaf (CA)	6,240	5/01/80 - 5/31/80*	1.5	43.2	22.5
		6/01/80 - 6/30/80*	0.3	43.5	22.5
		7/01/80 - 7/31/80*	1.0	44.5	23.7
		8/01/80 - 8/31/80*	0.1	44.6	23.8
		9/01/80 - 9/30/80*	0.9	45.5	23.8
Hagan's Meadow (CA)	8,000	5/01/80 - 5/31/80*	2.1	43.6	30.5
		6/01/80 - 6/30/80*	0.8	44.4	30.5
		7/01/80 - 7/31/80*	1.7	46.1	32.7
		8/01/80 - 8/31/80*	0.0	46.1	33.3
		9/01/80 - 9/30/80*	0.1	46.2	33.3
Heavenly Valley (CA)	8,800	5/01/80 - 5/31/80*	3.7	42.0	29.1
		6/01/80 - 6/30/80*	0.5	42.5	29.4
		7/01/80 - 7/31/80*	0.4	42.9	32.2
		8/01/80 - 8/31/80*	1.1	44.0	32.5
		9/01/80 - 9/30/80*	1.2	45.2	32.7
Independence Camp (CA)	7,000	5/01/80 - 5/31/80*	1.2	44.3	28.0
		6/01/80 - 6/30/80*	0.5	44.8	28.7
		7/01/80 - 7/31/80*	0.7	45.5	29.3
		8/01/80 - 8/31/80*	0.1	45.6	29.4
		9/01/80 - 9/30/80*	0.6	46.2	29.5
Independence Creek (CA)	6,500	4/25/80 - 6/06/80	1.5	34.2	--
		6/07/80 - 6/30/80*	0.0	34.2	--
		7/01/80 - 7/31/80*	0.2	34.6	--
		8/01/80 - 8/31/80*	0.1	34.7	--
		9/01/80 - 9/30/80*	0.0	34.7	--
Independence Lake (CA)	8,450	5/01/80 - 5/31/80*	2.2	59.5	29.6
		6/01/80 - 6/30/80*	1.2	60.7	29.8
		7/01/80 - 7/31/80*	0.5	61.2	30.7
		8/01/80 - 8/31/80*	0.0	61.2	31.8
		9/01/80 - 9/30/80*	0.3	61.5	31.8
Marlette Lake	8,000	5/01/80 - 5/31/80*	2.3	42.8	30.9
		6/01/80 - 6/30/80*	0.3	43.1	31.0
		7/01/80 - 7/31/80*	0.0	43.1	31.9
		8/01/80 - 8/31/80*	0.2	43.3	32.5
		9/01/80 - 9/30/80*	0.9	44.2	32.5
Mt. Rose	9,000	5/01/80 - 5/31/80*	2.3	42.0	27.7
		6/01/80 - 6/30/80*	0.7	42.7	28.1
		7/01/80 - 7/31/80*	0.5	43.2	29.3
		8/01/80 - 8/31/80*	0.3	43.5	30.7
		9/01/80 - 9/30/80*	1.5	45.0	30.8
Mt. Rose Ski Area	8,850	4/30/80 - 6/07/80	3.9	70.5	--
		6/08/80 - 6/30/80*	0.1	70.6	--
		7/01/80 - 7/31/80*	0.4	71.0	--
		8/01/80 - 8/31/80*	0.0	71.0	--
		9/01/80 - 9/30/80*	1.4	72.4	--
Rubicon #2 (CA)	7,500	4/25/80 - 8/05/80	1.8	53.8	--
		8/06/80 - 8/31/80*	0.1	53.9	--
		9/01/80 - 9/30/80*	0.0	53.9	--
Squaw Valley Gold Coast (CA)	7,800	9/08/79 - 1/09/80	24.4	24.4	--
		1/10/80 - 2/07/80	24.9	49.3	--
		2/08/80 - 4/14/80	27.8	77.1	--
		4/15/80 - 7/15/80	7.2	84.3	--
		7/16/80 - 8/05/80	0.0	84.3	--
		8/06/80 - 8/31/80*	0.1	84.4	--
		9/01/80 - 9/30/80*	1.9	86.3	--
Tahoe City Cross (CA)	6,750	4/25/80 - 6/04/80	0.6	49.4	--
		6/05/80 - 6/30/80*	0.5	50.9	--
		7/01/80 - 7/31/80*	0.3	51.2	--
		8/01/80 - 8/31/80*	0.0	51.2	--
		9/01/80 - 9/30/80*	0.0	51.2	--
Truckee #2 (CA)	6,400	3/27/80 - 6/02/80	3.8	41.5	--
		6/03/80 - 6/30/80*	0.3	41.8	--
		7/01/80 - 7/31/80*	0.3	42.1	--
		8/01/80 - 8/31/80*	0.0	42.1	--
		9/01/80 - 9/30/80*	0.0	42.1	--
* SNOTEL Provisional					

# PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	PERIOD OF MEASUREMENT	CURRENT RECORD		PAST RECORD
			ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/79	ACCUM. PRECIP. PREVIOUS YEAR
TAHOE-TRUCKEE (contd.)					
Ward Creek #3 (CA)	6,750	5/01/80 - 5/31/80*	2.2	82.7	--
		6/01/80 - 6/30/80*	1.4	84.1	--
		7/01/80 - 7/31/80*	0.7	84.8	--
		8/01/80 - 8/31/80*	0.0	84.8	--
		9/01/80 - 9/30/80*	0.0	84.8	--
CARSON-WALKER					
Blue Lakes (CA)	8,000	5/02/80 - 7/15/80	13.3	61.3	--
		7/16/80 - 7/31/80*	0.0	61.3	--
		8/01/80 - 8/31/80*	0.0	61.3	--
		9/01/80 - 9/30/80*	0.0	61.3	--
Ebbetts Pass (CA)	8,700	5/01/80 - 5/31/80*	2.5	67.3	49.4
		6/01/80 - 6/30/80*	1.1	68.4	49.7
		7/01/80 - 7/31/80*	1.0	69.4	50.4
		8/01/80 - 8/31/80*	0.0	69.4	50.4
		9/01/80 - 9/30/80*	1.5	70.9	50.4
Leavitt Meadows (CA)	7,200	4/26/80 - 7/10/80	1.3	40.4	--
		7/11/80 - 7/31/80*	0.0	40.4	--
		8/01/80 - 8/31/80*	0.6	41.0	--
		9/01/80 - 9/30/80*	1.0	42.0	--
Lobdell Lake (CA)	9,200	5/01/80 - 5/31/80*	3.1	32.7	21.3
		6/01/80 - 6/30/80*	0.1	32.8	21.3
		7/01/80 - 7/31/80*	0.1	32.9	22.0
		8/01/80 - 8/31/80*	0.3	33.2	22.7
		9/01/80 - 9/30/80*	2.1	35.3	22.7
Pine Nut Creek (CA)	6,600	4/17/80 - 5/30/80	1.9	--	--
		6/01/80 - 6/30/80	0.0	--	--
		7/01/80 - 7/31/80	0.2	--	--
		8/01/80 - 8/29/80	0.2	--	--
		8/30/80 - 9/30/80	0.1	--	--
Poison Flat (CA)	7,900	4/26/80 - 7/14/80	3.1	43.3	--
		7/15/80 - 7/31/80*	0.3	43.6	--
		8/01/80 - 8/31/80*	0.6	44.2	--
		9/01/80 - 9/30/80*	0.7	44.9	--
Sonora Pass Bridge (CA)	8,800	5/01/80 - 5/31/80*	2.9	47.4	32.6
		6/01/80 - 6/30/80*	0.6	48.0	33.0
		7/01/80 - 7/31/80*	1.7	49.7	33.0
		8/01/80 - 8/31/80*	0.1	49.8	33.2
		9/01/80 - 9/30/80*	1.7	51.5	33.3
Spratt Creek (CA)	6,080	7/01/80 - 8/14/80	0.4	--	--
		8/15/80 - 8/31/80*	0.0	--	--
		9/01/80 - 9/30/80*	0.5	--	--
Virginia Lakes Ridge (CA)	9,200	5/01/80 - 5/31/80*	1.4	36.1	26.5
		6/01/80 - 6/30/80*	0.0	36.1	26.6
		7/01/80 - 7/31/80*	0.2	36.3	26.6
		8/01/80 - 8/31/80*	0.1	36.4	27.8
		9/01/80 - 9/30/80*	1.9	38.3	27.9
Wet Meadow #2 (CA)	8,050	4/26/80 - 8/03/80	2.8	63.1	--
		8/04/80 - 8/31/80*	0.9	64.0	--
		9/01/80 - 9/30/80*	0.6	64.6	--
HUMBOLDT					
Big Creek Summit	8,700	3/27/80 - 8/12/80	11.9	25.0	--
		8/13/80 - 8/31/80*	0.0	25.0	--
		9/01/80 - 9/30/80*	2.3	27.3	--
Buckskin, Lower	6,700	3/27/80 - 6/19/80	7.6	27.6	--
		6/20/80 - 6/30/80*	0.0	27.6	--
		7/01/80 - 7/31/80*	0.0	27.6	--
		8/01/80 - 8/31/80*	0.1	27.7	--
		9/01/80 - 9/30/80*	1.6	29.3	--
Corral Canyon	8,500	5/01/80 - 5/31/80*	9.0	31.7	24.8
		6/01/80 - 6/30/80*	2.1	33.8	26.2
		7/01/80 - 7/31/80*	0.3	34.1	27.3
		8/01/80 - 8/31/80*	0.3	34.4	27.3
		9/01/80 - 9/30/80*	2.4	36.8	28.0
Dorsey Basin	8,100	5/01/80 - 5/31/80*	10.0	34.5	28.3
		6/01/80 - 6/30/80*	2.0	36.5	30.9
		7/01/80 - 7/31/80*	1.4	37.9	31.2
		8/01/80 - 8/31/80*	0.8	38.7	31.2
		9/01/80 - 9/30/80*	0.4	40.1	32.9
Fry Canyon	6,700	7/19/80 - 9/30/80	3.7	--	--
* SNOTEL Provisional					

\* SNOTEL Provisional



# PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT RECORD			PAST RECORD
		PERIOD OF MEASUREMENT	ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/79	ACCUM. PRECIP. PREVIOUS YEAR
<u>HUMBOLDT (contd.)</u>					
Granite Peak	7,800	2/27/80 - 8/05/80	15.7	37.3	--
		8/06/80 - 8/31/80*	0.2	37.5	--
		9/01/80 - 9/30/80*	0.5	38.0	--
Green Mountain	8,000	5/03/80 - 7/21/80	9.9	32.1	--
		7/22/80 - 7/31/80*	0.2	32.3	--
		8/01/80 - 8/31/80*	0.2	32.5	--
		9/01/80 - 9/31/80*	2.6	35.1	--
Lamance Creek	6,000	3/27/80 - 8/06/80	7.4	32.2	--
		8/07/80 - 8/31/80*	0.1	32.3	--
		9/01/80 - 9/31/80*	2.3	34.6	--
Lamoille #3	7,700	5/03/80 - 7/19/80	12.7	36.4	--
		7/20/80 - 7/31/80*	0.3	36.7	--
		8/01/80 - 8/31/80*	0.5	37.2	--
		9/01/80 - 9/30/80*	1.8	39.0	--
Martin Creek	6,700	3/27/80 - 6/19/80	10.1	33.2	--
		6/20/80 - 9/30/80	3.5	36.7	--
Rodeo Flat	6,800	5/03/80 - 7/17/80	6.5	21.5	--
		7/18/80 - 9/30/80	3.3	24.8	--
Trout Creek, Lower	6,900	3/29/80 - 9/16/80	14.6	30.9	--
<u>SNAKE-OWYHEE</u>					
Bear Creek	7,800	5/01/80 - 5/31/80*	6.2	34.2	29.1
		6/01/80 - 6/30/80*	2.0	36.7	30.4
		7/01/80 - 7/31/80*	1.5	38.2	32.5
		8/01/80 - 8/31/80*	0.3	38.5	33.1
		9/01/80 - 9/30/80*	2.8	41.3	33.5
Big Bend	6,700	5/01/80 - 5/31/80*	3.0	17.6	15.4
		6/01/80 - 6/30/80*	1.7	19.3	16.2
		7/01/80 - 7/31/80*	0.4	19.7	17.0
		8/01/80 - 8/31/80*	0.0	19.7	17.6
		9/01/80 - 9/30/80*	1.6	21.3	17.7
Fawn Creek	7,000	5/03/80 - 6/07/80	10.0	38.6	--
		6/08/80 - 7/21/80	0.0	38.6	--
		7/22/80 - 7/31/80*	0.0	38.6	--
		8/01/80 - 8/31/80*	0.3	38.9	--
		9/01/80 - 9/30/80*	1.0	39.9	--
Goat Creek	8,800	5/02/80 - 7/23/80	9.2	38.9	--
		7/24/80 - 7/31/80*	0.6	39.5	--
		8/01/80 - 8/31/80*	0.2	39.7	--
		9/01/80 - 9/30/80*	0.4	40.1	--
Jack Creek #2, Upper	7,250	5/01/80 - 5/31/80*	4.8	26.3	25.0
		6/01/80 - 6/30/80*	2.0	28.3	27.1
		7/01/80 - 7/31/80*	0.0	28.3	28.1
		8/01/80 - 8/31/80*	0.2	28.5	28.8
		9/01/80 - 9/30/80*	2.1	30.6	29.4
Jacks Peak	8,420	3/26/80 - 5/02/80	7.7	34.3	--
		5/03/80 - 9/30/80	12.3	46.6	--
Laurel Draw	6,700	5/01/80 - 5/31/80*	4.8	25.7	--
		6/01/80 - 6/30/80*	2.0	27.7	--
		7/01/80 - 7/31/80*	0.5	28.2	--
		8/01/80 - 8/31/80*	0.4	28.6	--
		9/01/80 - 9/30/80*	1.2	29.8	--
Pole Creek Ranger Station	8,330	5/02/80 - 7/23/80	7.0	24.7	--
		7/24/80 - 7/31/80*	0.2	24.9	--
		8/01/80 - 8/31/80*	0.5	25.4	--
		9/01/80 - 9/30/80*	2.1	27.5	--
Seventy Six Creek	7,100	5/01/80 - 5/31/80*	3.1	20.2	21.0
		6/01/80 - 6/30/80*	1.4	21.6	21.6
		7/01/80 - 7/31/80*	0.3	21.9	23.0
		8/01/80 - 8/31/80*	0.5	22.4	23.9
		9/01/80 - 9/30/80*	2.2	24.6	24.0
Taylor Canyon	6,200	5/03/80 - 6/18/80	4.1	12.9	--
		6/19/80 - 6/30/80*	0.1	13.0	--
		7/01/80 - 7/31/80*	0.2	13.2	--
		8/01/80 - 8/31/80*	0.3	13.5	--
		9/01/80 - 9/30/80*	0.7	14.2	--
* SHOTEL Provisional					



# PRECIPITATION (Inches)

BASIN AND PRECIPITATION GAGE LOCATION	ELEVATION	PERIOD OF MEASUREMENT	CURRENT RECORD		PAST RECORD
			ACCUM. PRECIP. FOR THE PERIOD	ACCUM. PRECIP. SINCE 10/1/79	ACCUM. PRECIP. PREVIOUS YEAR
EASTERN NEVADA					
Berry Creek	9,100	4/25/80 - 7/16/80	7.8	27.3	--
		7/17/80 - 7/31/80*	0.2	27.5	--
		8/01/80 - 8/31/80*	0.9	28.4	--
		9/01/80 - 9/30/80*	3.4	31.8	--
Hole-in-Mountain	8,900	2/28/80 - 7/19/80	18.2	39.7	--
		7/20/80 - 7/31/80*	0.0	39.7	--
		8/01/80 - 8/31/80*	1.4	41.1	--
		9/01/80 - 9/30/80*	2.8	43.9	--
Ward Mountain	8,900	10/15/79 - 4/24/80	21.5	21.5	--
		4/25/80 - 7/16/80	8.7	30.2	--
		7/17/80 - 7/31/80	1.2	31.4	--
		8/01/80 - 8/31/80*	0.7	32.1	--
		9/01/80 - 9/30/80*	2.4	34.5	--
NORTHERN GREAT BASIN					
Cedar Pass (CA)	7,100	5/01/80 - 5/31/80*	5.6	39.7	28.9
		6/01/80 - 6/30/80*	2.2	41.9	29.8
		7/01/80 - 7/31/80*	0.6	42.5	30.3
		8/01/80 - 8/31/80*	0.0	42.5	30.9
		9/01/80 - 9/30/80*	0.8	43.3	32.3
Disaster Peak	6,500	9/19/79 - 10/18/79	0.4	0.4	--
		10/19/79 - 2/26/80	18.3	18.7	--
		2/27/80 - 6/18/80	6.2	24.9	--
		6/19/80 - 7/31/80	0.0	24.9	--
		8/01/80 - 8/31/80*	0.0	24.9	--
		9/01/80 - 9/30/80*	1.0	25.9	--
Dismal Swamp #2 (CA)	7,050	5/01/80 - 8/13/80	6.4	50.0	--
		8/14/80 - 8/31/80*	0.0	50.0	--
		9/01/80 - 9/30/80*	0.7	50.7	--
Ferguson Ranch <sup>1/</sup>	5,560	No available data.			
49 Mountain <sup>1/</sup>	6,000	No available data.			
Mt. Bidwell <sup>1/</sup> (CA)	7,240	No available data.			
* SNOTEL Provisional <sup>1/</sup> New installation.					

\* SNOTEL Provisional

<sup>1/</sup> New installation.

## SNOTEL

The operational SNOTEL (snow telemetry) sites now total forty-seven. These sites provide snow water equivalent, precipitation, and temperature twice daily. More readings may be acquired during the day if needed. The data from these sites provides all water users an up-to-date account for water management decisions, especially during water shortage periods.

Data from sites representing several basins in the state is included in this report. Information on other sites may be obtained from the Soil Conservation Service, P.O. Box 4850, Reno, Nevada 89505.

The SNOTEL sites now operational are:

### TRUCKEE-TAHOE BASIN

Echo Peak (CA)	Mt. Rose (NV)
Fallen Leaf (CA)	Mt. Rose Ski Area (NV)
Hagan's Meadow (CA)	Rubicon #2 (CA)
Heavenly Valley (CA)	Squaw Valley Gold Coast (CA)
Independence Camp (CA)	Tahoe City Cross (CA)
Independence Creek (CA)	Truckee #2 (CA)
Independence Lake (CA)	Ward Creek #3 (CA)
Marlette Lake (NV)	

### CARSON-WALKER RIVER BASINS

Blue Lakes (CA)	Spratt Creek (CA)
Ebbetts Pass #2 (CA)	Sonora Pass Bridge (CA)
Leavitt Meadows (CA)	Virginia Lakes Ridge (CA)
Lobdell Lake (CA)	Wet Meadows #2 (CA)
Poison Flat (CA)	

### HUMBOLDT RIVER BASIN

Big Creek Summit (NV)	Granite Peak (NV)
Buckskin, Lower (NV)	Green Mountain (NV)
Corral Canyon (NV)	Lamance Creek (NV)
Dorsey Basin (NV)	Lamoille #3 (NV)

### SNAKE RIVER BASIN

Bear Creek (NV)	Laurel Draw (NV)
Big Bend (NV)	Pole Creek Ranger Station (NV)
Fawn Creek (NV)	Seventy Six Creek (NV)
Goat Creek (NV)	Taylor Canyon (NV)
Jack Creek #2, Upper (NV)	

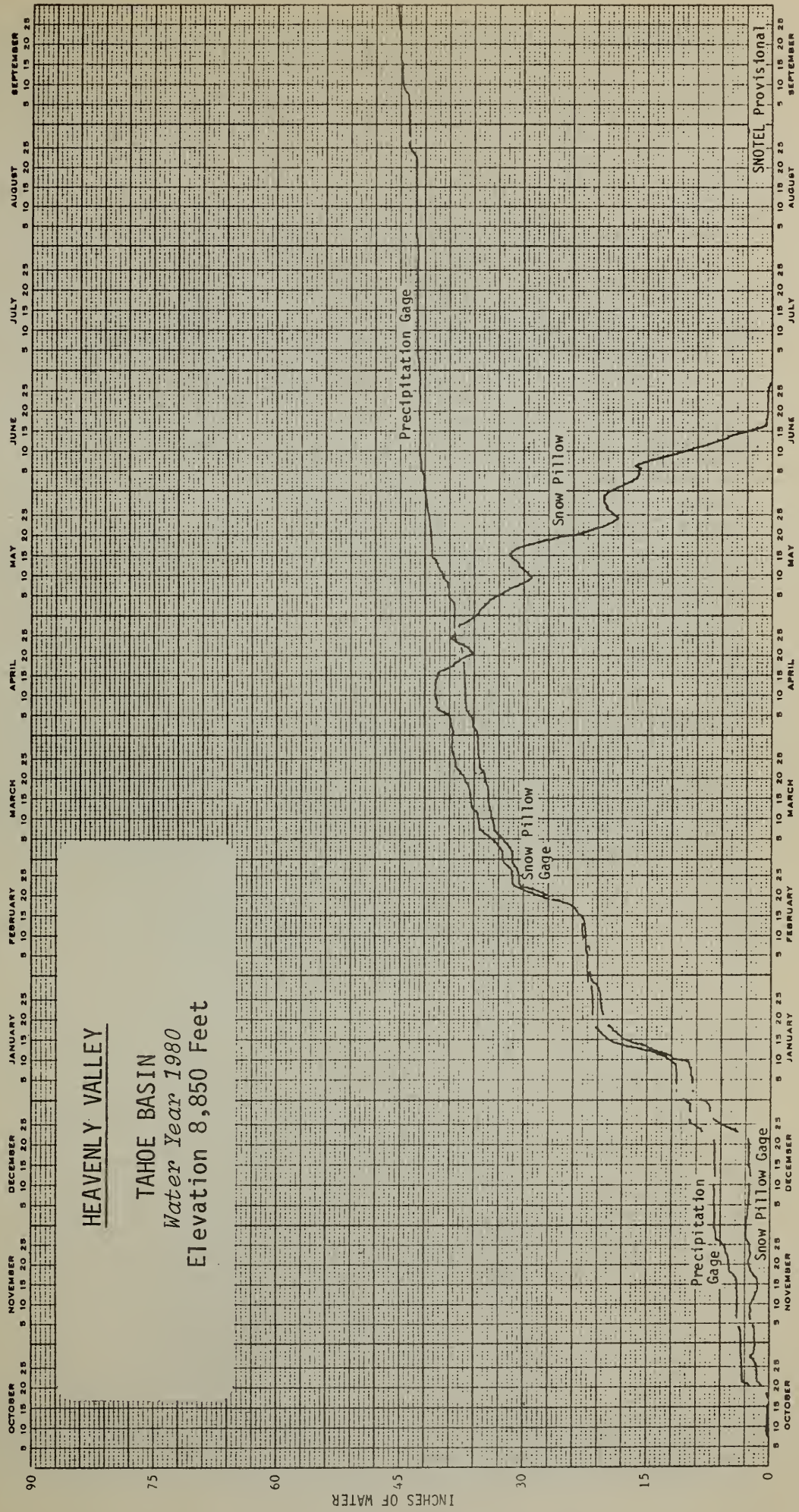
### NORTHERN GREAT BASIN

Cedar Pass (CA)	Dismal Swamp #2 (CA)
Disaster Peak (NV)	

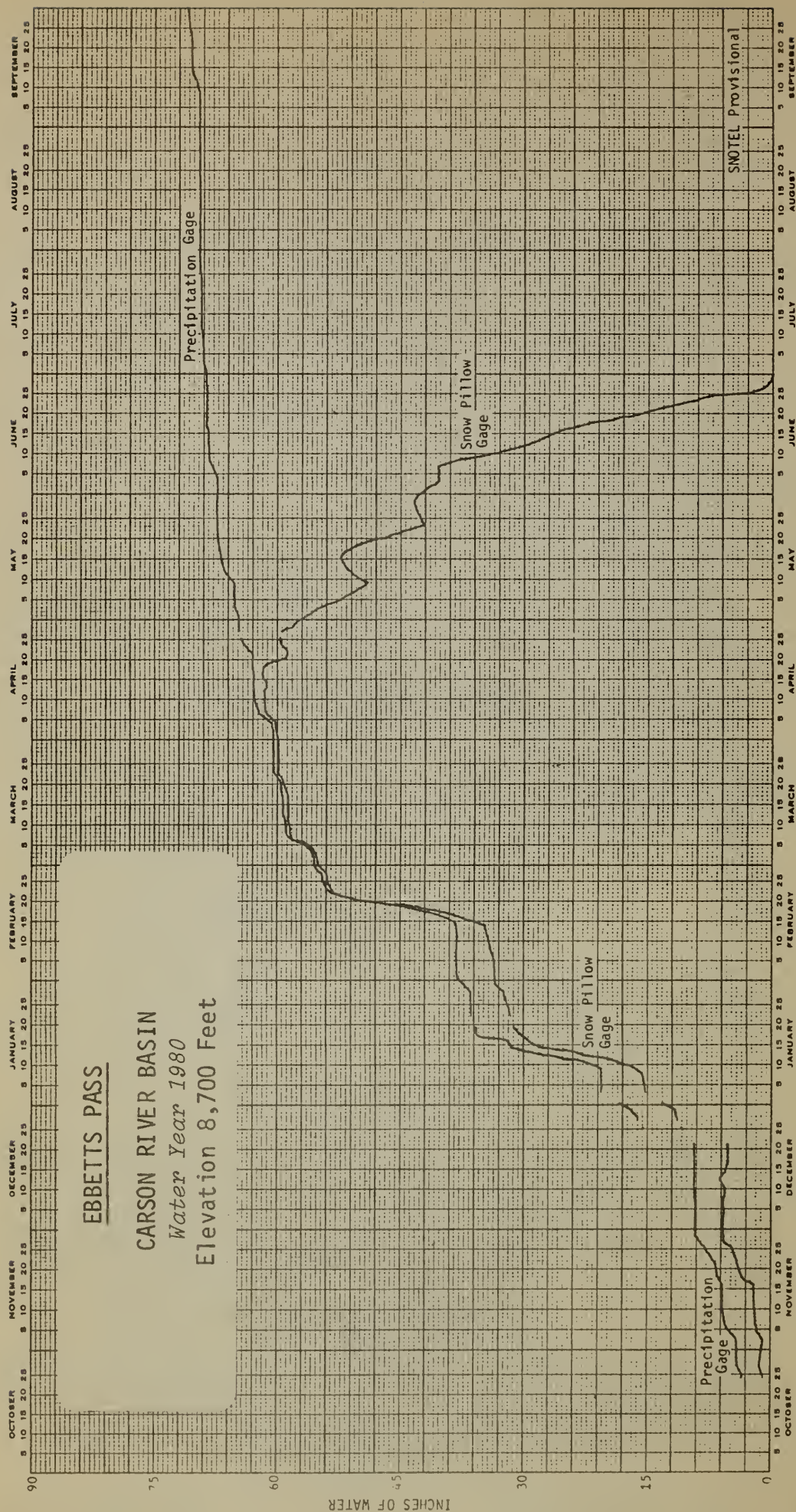
### EASTERN NEVADA

Berry Creek (NV)	Ward Mountain (NV)
Hole-in-Mountain (NV)	

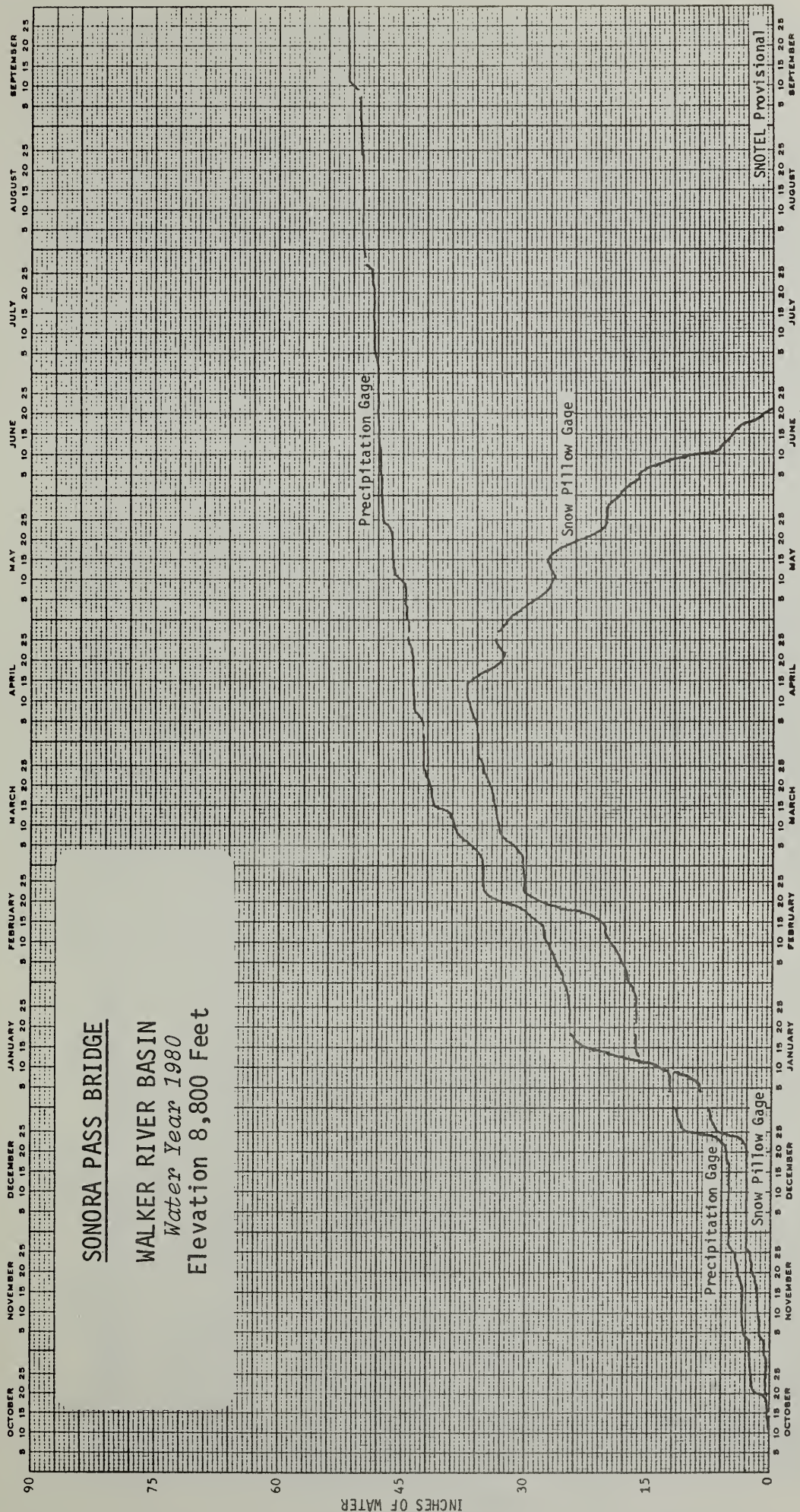




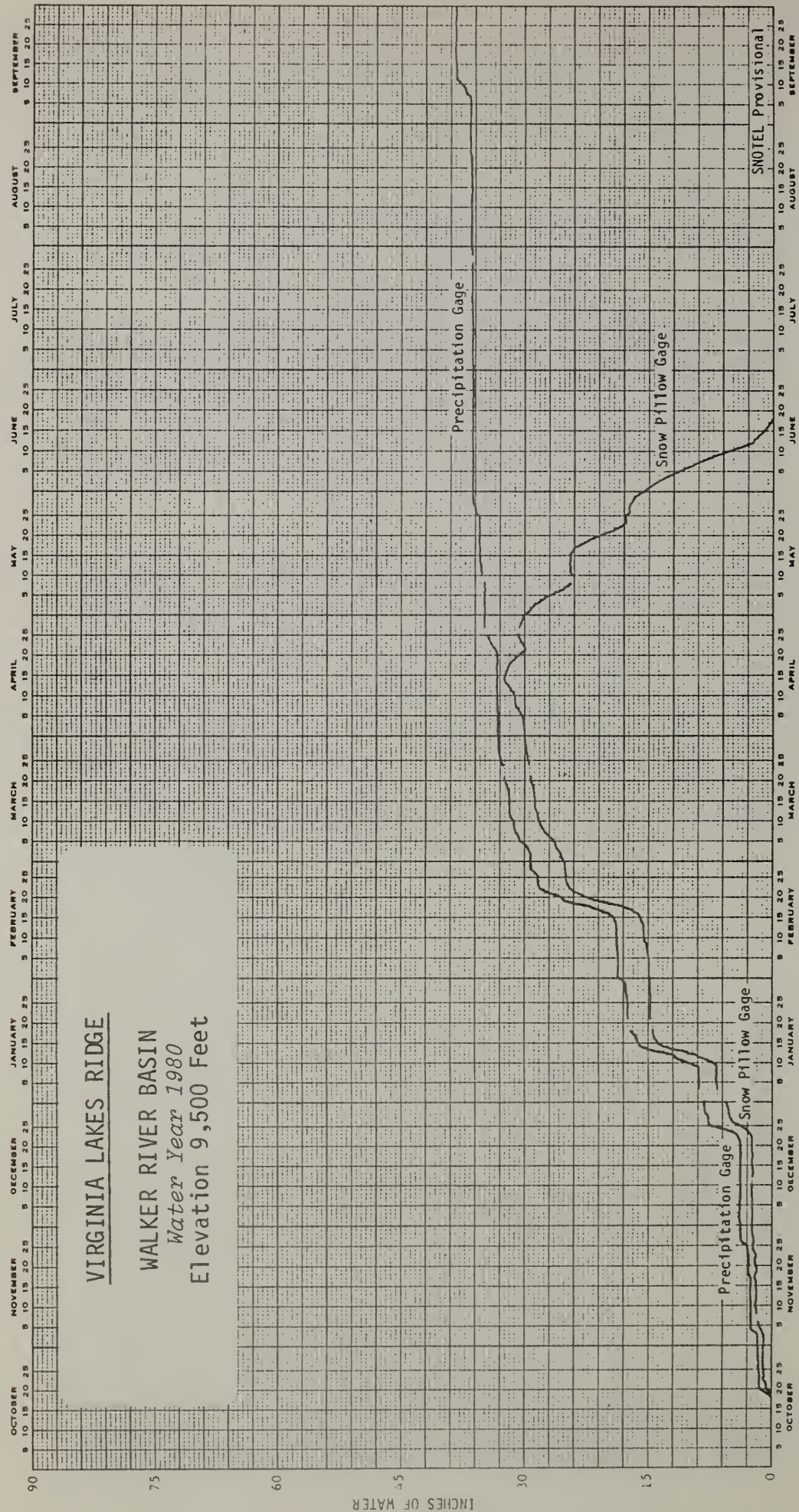




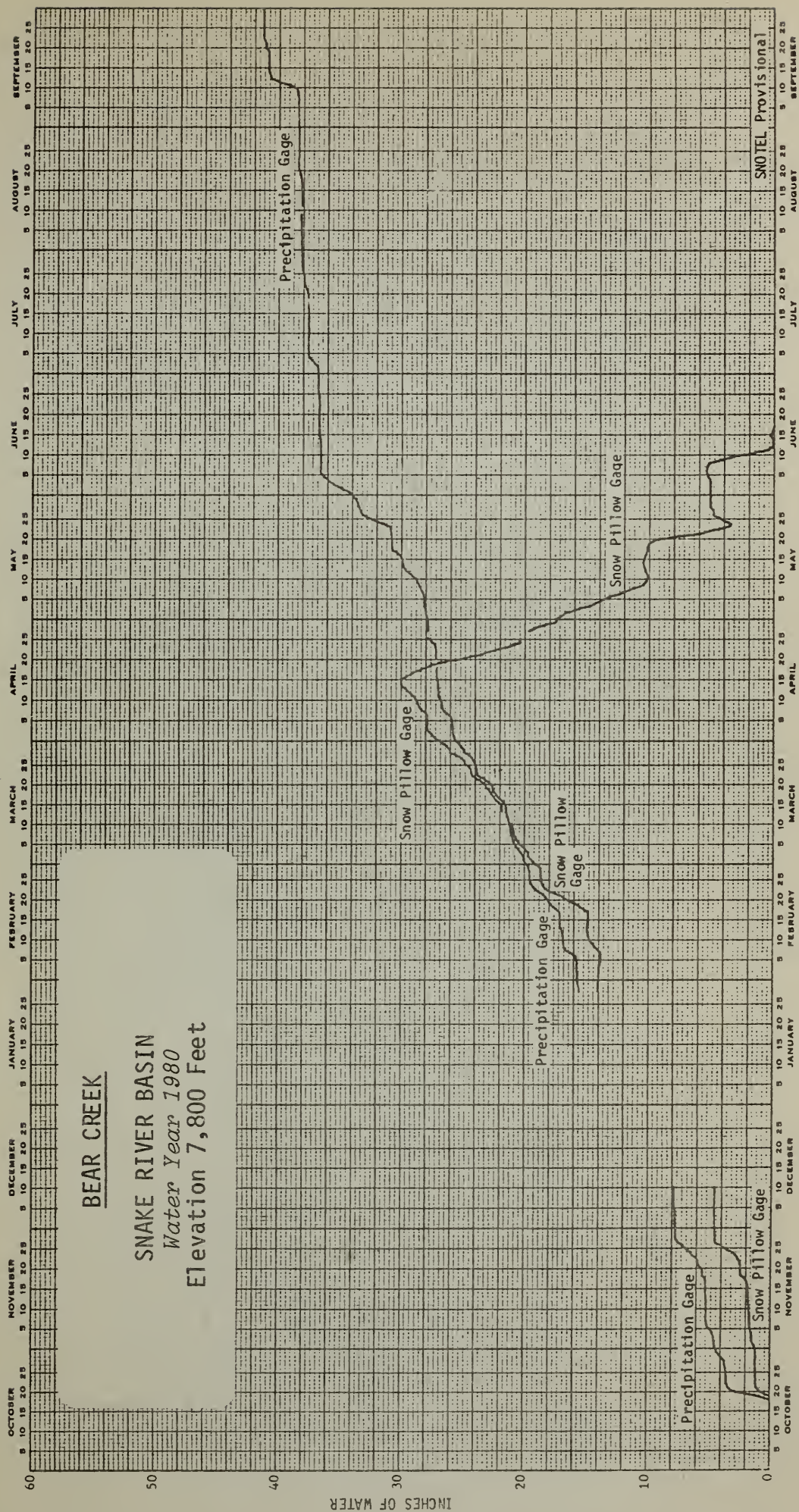




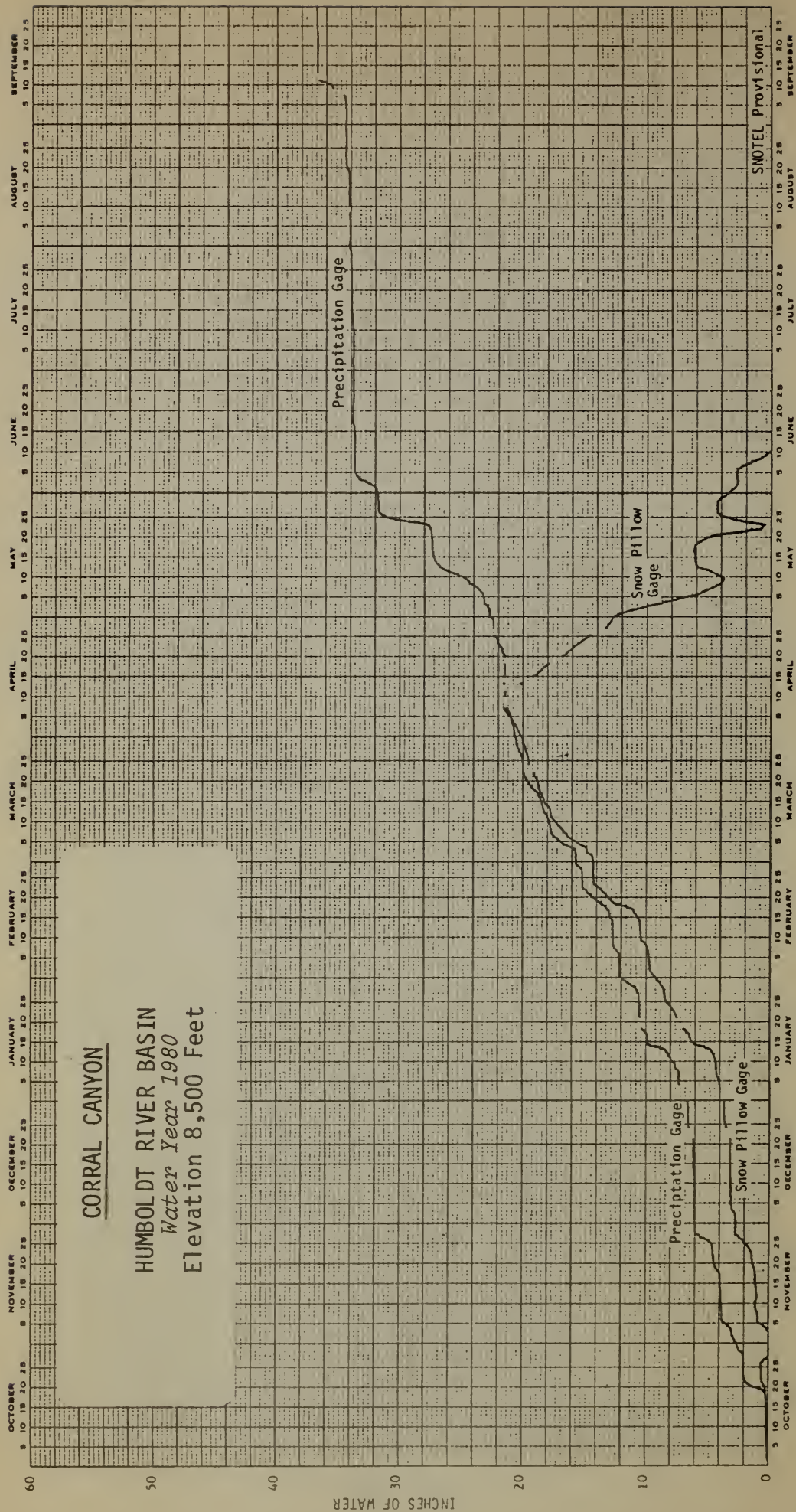














## Agencies Cooperating in Collecting Data Contained in this Bulletin

### FEDERAL

- Agricultural Research Service
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Soil Conservation Service
- U. S. District Court - Federal Water Master
- NOAA, National Weather Service

### STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Conservation Districts
- Nevada Department of Conservation & Natural Resources
  - Division of Water Resources
  - Nevada State Forester
- Oregon Cooperative Snow Surveys
- University of Nevada, Desert Research Institute
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

### PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas and Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Truckee-Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

P.O. Box 4850  
RENO, NEVADA 89505

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

U.S.D.A.  
NATIONAL LIBRARY  
RECEIVED

DEC 4 '60

SOIL CONSERVATION  
CURRENT RECORDS

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



**FIRST CLASS MAIL**

## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*